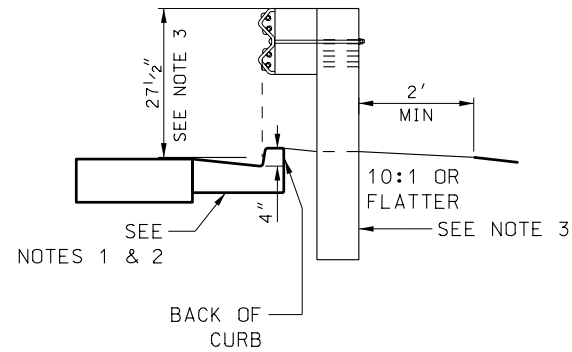
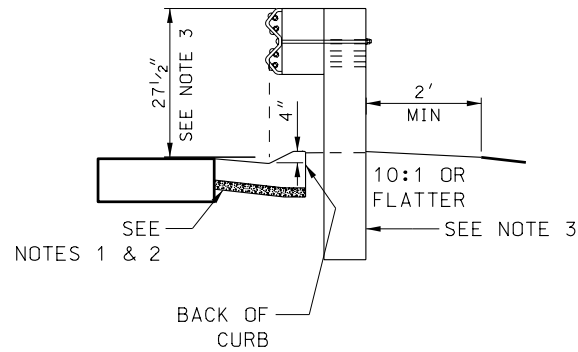


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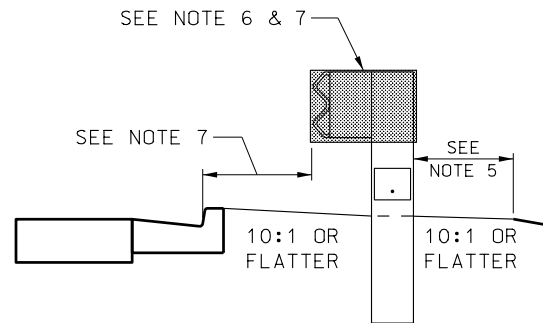
SECTION A-A

W-BEAM GUARDRAIL
MODIFIED TYPE B1 CURB AND GUTTER



SECTION A-A

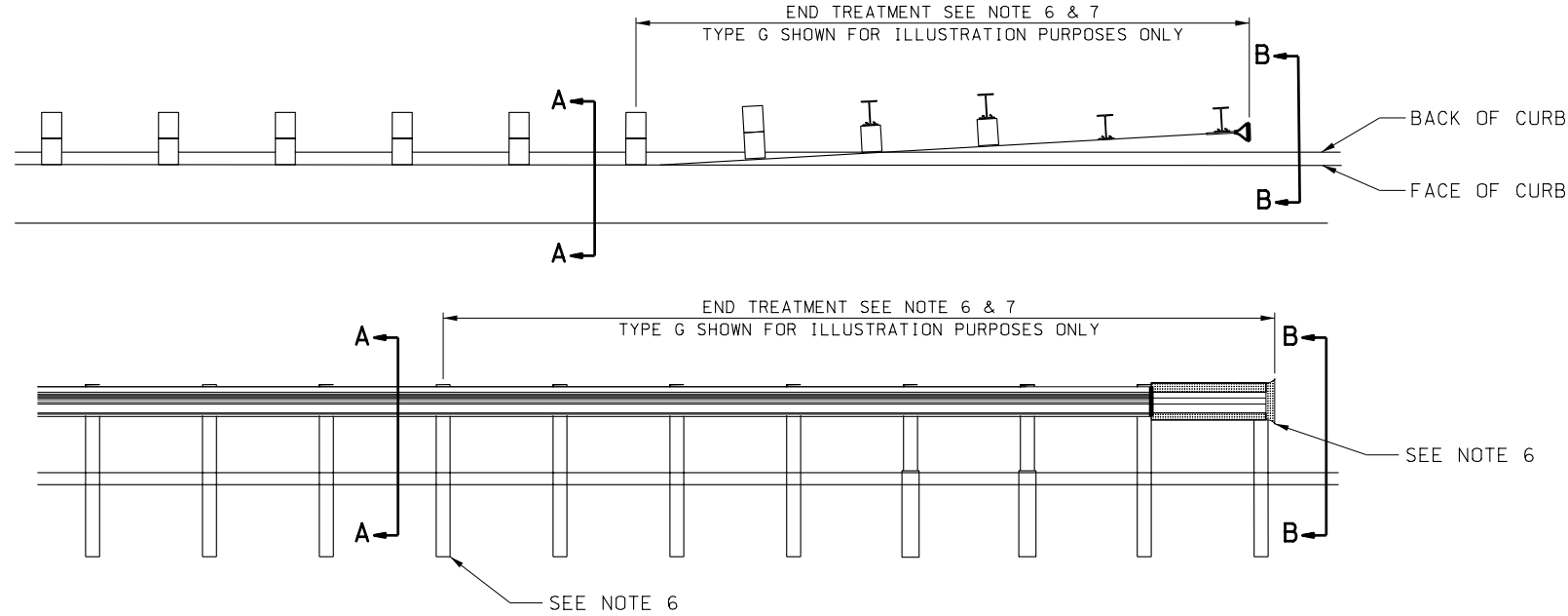
W-BEAM GUARDRAIL
TYPE M1 CURB AND GUTTER



SECTION B-B

NOTES:

1. MEET REQUIREMENTS OF STD DWG GW 2 PRIOR TO INSTALLING CURB AND/OR CURB AND GUTTER WITH W-BEAM GUARDRAIL.
2. MODIFY CURB AND CURB AND GUTTER TO A MAXIMUM OF 4 INCHES AT FACE OF CURB.
3. DRIVE GUARDRAIL POST TO THE DEPTH REQUIRED TO ATTACH BLOCK AND RAIL AT THE TOP HOLE OF THE POST. SET RAIL HEIGHT AT FACE OF CURB FROM TRAVELWAY SURFACE EXTENDED, WHEN RAIL ELEMENT IS AT FACE OF CURB.
4. INSTALL IN A MANNER THAT FACE OF W-BEAM RAIL IS FLUSH WITH FACE OF CURB.
5. CONSTRUCT PAD AS PER APPLICABLE CC STD DWG.
6. ATTACH END TREATMENT AT LAST POST OF TYPICAL RUN. GRADUALLY RAISE END TREATMENT RAIL ELEMENT TO MEET HEIGHT REQUIRED BY THE MANUFACTURER AT END TREATMENT HEAD. THIS APPLIES TO END TREATMENT TYPES "G" AND "H" SYSTEMS.
7. OFFSET END TREATMENT AS PER APPLICABLE CC STD DWG.
A. TYPE "G" TYPICAL OFFSET 2 FEET.
B. TYPE "H" TYPICAL OFFSET 4 FEET.



TYPE B1 AND TYPE M1 SHOWN AS EXAMPLES
4 INCH MAXIMUM HEIGHT FOR ALL CURBS
AND/OR CURB AND GUTTER TYPES

W-BEAM GUARDRAIL& END TREATMENT INSTALLATION WITH MODIFIED CURBS AND/OR CURB AND GUTTER TYPES

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

RECOMMENDED FOR APPROVAL
SALESMAN
CHAIRMAN STANDARDS COMMITTEE
APPROVED
NOV. 30, 2006
DATE
NOV. 30, 2006
DATE
DEPUTY DIRECTOR

W-BEAM GUARDRAIL
WITH MODIFIED
CURB AND
CURB AND GUTTER

STANDARD DRAWING TITLE

STD DWG
BA 4S1

REVISIONS
1 11/30/06 G.S NEW DRAWING.

NO. DATE APPR. REMARKS